

# JC03 Rec'd PCT/PTO 1 1 OCT 2 10/ 🗭 1846

CERTIFICATE OF MAILING

hereby certify that this correspondence is being sent by priority/ first class mail to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA. on October 7.

ELENA M. CUTHBERTSON

### PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF

MOTOHIRO YAMAHARA, ET AL.

SERIAL NO.: 10/521,846 FILED: JANUARY 18, 2005 DOCKET NO.: SHARP-1

EXAMINER: UNKNOWN ART UNIT: UNKNOWN

TITILE: DENDRITIC AND ELECTRONIC DEVICE ELEMENT EMPLOYING THE

SAME

WILMINGTON, DE DATE: October 7, 2005

#### INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Mitsubishi

Sir:

In compliance with the applicants' duty of disclosure under 37 CFR 1.56, and the requirements of 37 CFR 1.97 and 1.98, and to aid in the search and examination of the above identified application, the applicants note and enclose a copy of each of the following references and the English translations of the abstracts:

Yamamoto, et al. Japanese Patent Application Laid-Open No.07-126616

Hitachi, Ltd Japanese Patent Application Laid-Open No. 08-018125

Cambridge, et al. Japanese Patent Application Laid-Open No. 10-092576

Mitsubishi Japanese Patent Application Laid-Open No. 63-076378

Res Dev Corp.

Japanese Patent Application Laid-Open No. 04-133351

The PTO did not receive the following listed item(s) FORS

Japanese Patent Application Laid-Open No. 2000-336171

Applicant: Motohiro ramahara, et al. Serial No.: 10/521,846 Filing Date: January 18, 2005

Matsushita

Mitsubishi Japanese Patent Application Laid-Open No. 05-110069

Tosoh Japanese Patent Application Laid-Open No. 10-310561

Japanese Patent Application Laid-Open No. 07-206599

Stanley Elec. Japanese Patent Application Laid-open No. 09-059355

Samuel, et al. WO 1999/21935

Synthesis, Light Emission, and Optical Limiting of Hyperbranced Poly[Phenylene-alt-(2,5-Thienylene)s]. Luo, J. et al., Polymer Preprints, vol.42, no.2, 2001, pgs. 527-528, XP009020396.

Poly(Amidoamine)(Pamam) Dendrimers: From Biomimicry to Drug Delivery and Biomedical Applications, Esfand, R., et al., Drug Discovery Today, Elsevier Science Ltd, GB, vol.6 no. 8, April 2001 (2001-04), pgs. 427-436, XP001029831 ISSN: 1359-6446.

Pentacene-Based Organic Thin-film Transistors, Yen-Yi Line, IEEE Transactions on Electron Devices, vol. 44, No. 8 p. 1325 (1997).

Electrically Conducting, L.L. Miller, et al.; J. Am. Chemistry Society, vol. 119, p. 1005 (1997)

Masaaki Kakimoto, Chemistry, vol. 50, p. 608 (1995)

Dendritic Macromolecules, Masaaki Kakimoto, Kobunshi (High Polymers, Japan) vol. 47, p. 804 (1998)

Convergent Dendrons and Dendrimers: from Synthesis to Applications, Grayson and Frechet, Chemistry Rev. vol. 101, pgs 3819-3867 (2001)

Okada, Chemistry and Function of Dendrimers, IPC, p.25-29

Starburst Molecules for Amorphous Molecular Materials, Shirota, Kobata, and Noma, Chemistry Letters, p. 1145-1148 (1989)

Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides. Miyaura and Suzuki, Yuki Gosei Kagaku Kyokai Shi (Journal of Synthetic Organic Chemistry, Japan), vol. 46, p. 848-860 (1988)

Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, Miyaura and Suzuki, Chemistry Rev., vol. 95, pgs. 2457-2483 (1995) Applicant: Motohiro Yammara, et al. Serial No.: 10/521,846

Filing Date: January 18, 2005

Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles, 1995-1998., Suzuki, Journal of Organometallic Chemistry, vol. 576, pgs. 147-168 (1999)

A copy of PTO form 1449 is also enclosed.

Respectfully submitted,

Donald W. Huntley
Attorney for Applicants

Registration No. 24,673 Telephone: 302-426-0610

emc

Enclosures

L:\clients\Kurihara\Sharp-1\documents\IDS.doc

OIPE OCT ] ] 200s THE THAT

Evamine

PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Petent and Trademark Office, U.S. DEPARTMENT OF COMMERCE e Peperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Complete if Known

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary) Sheet 1

CO	inpiete ii Kilowii	
Application Number	10/521,846	
Filing Date	January 18, 2005	
First Named Inventor	Motohiro Yamahara	
Art Unit		
Examiner Name		
Attorney Docket Number	Sharn-1	

12/18/2008

Examiner	04-		U. S. PATENT D		
Examiner Initiels*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Peges, Columns, Lines, Where Relevant Passages or Relevant
	-	Number-Kind Code <sup>2 (f Incom)</sup> US-			Figures Appear
		US-			
		US-			
		US-	1		
		US-			
		US-			
		US-			<u> </u>
		US-			
		US-			
		US-			<del>                                     </del>
		US-			
		US-			+
		US-			<del></del>
		US-			<del>                                     </del>
		US-			
		US-			
		US-	+		

		FORE	GN PATENT DOCL	IMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	- ppinasitor onos podanicit	Or Relevant Figures Appear	T <sup>6</sup>
		JP-07-126616	05-16-1995	Yamamoto Ryuich		
		JP-08-018125	01-19-1996	Hitachi LTD		
		JP-10-092576	04-10-1998	Cambridge Displ		П
		JP-63-076378	04-06-1988	Mitsubishi Elec		П
		JP-2000-336171	12-05-2000	Mitsubishi Chem		
		JP-04-133351	05-07-1992	Res Dev Copr of		

Signature

/Duc Truong/

"EXAMINER: Initial if reference considered, whether or not claston is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant." Applicant's unique citation designation number (optional." See Kinds Codes of USPYP O Related Documents at www.userplace.gov or MPEP 901.00 it. Enter Office that issued the document, by the two-letter code (WIPD Standard ST.3)." For Applicant's patient occurrent, his indication of the year of the regin of the Emperor must proceed the senial number of the patient document. "Kind of document by the document by the communication of the year of the regin of the Emperor must proceed the senial number of the patient document." Kind of document by the communication of the patient document by the communication of the patient document by the communication of the patient document. The patient is supplicated in the place of Leck mark here is plant in application to place a check mark here is plant in application.

Transautor a statistic of the control of the contro TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

OCT 1 1 2005

PTO/SB/08A (08-03)
Approved for use through 07/31/2005. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless its contains a suit of OMB control num

Complete if Known

Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)
Sheet 2 of 2

	inprete il raiowii	
Application Number	10/521,846	
Filing Date	January 18, 2005	
First Named Inventor	Motohiro Yamahara	
Art Unit		
Examiner Name		
Attomey Docket Number	Sharp-1	

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Number-Kind Code <sup>2</sup> (# Anxwell			Figures Appear
		US-			
		US-	1 1		
		US-			
		US-			
		US-			+
		US-			
		US-			
		US-	1		
		US-			
		US-	1		

		FORE	IGN PATENT DOCL	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (# known)	MM-DD-YYYY	.,,	Or Relevant Figures Appear	TG
		JP-05-110069	04-30-1993	Mitsubishi Elec		
		JP-07-206599	08-08-1995	Matsushita Elec		
		JP-10-310561	11-24-1998	Tosoh Group		Г
		JP-09-059355	03-04-1997	Stanley Electri		
		WO 99/21935	05-06-1999	Isis Innovation		

Examiner Signature	/Duc Truong/	Date 12/18/20 Considered	800

"EXAMINER" initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. Applicants unique citation designation number (optional) "See Kinds Codes of UNIPP O Salmot Policies and Codes of the Code

Inhabition is adiacree.

This collection of this procession is required by 37 CFR 197 and 198. The information is required to obtain or retain a benefit by the public which is to file (and by the UPP of the process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.4. This collection is estimated to take 2 hours to complete, to the procession and the procession of the procession of

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

OCT 1 1 2005 P. C. TANDENAM

PTO/SB/08B (08-03) Approved for use through 07/31/2006, OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

. Substitut	e for form 1449/PTO				Complete if Known
				Application Number	10/521,846
			CLOSURE	Filing Date	January 18, 2005
STA	TEMENT B	YA	PPLICANT	First Named Inventor	Motohiro Yamahara
	(Use as many shee	ofe ac n	acessand	Art Unit	
	(Use as many snee	nto do II	ocossary)	Examiner Name	
Sheet	1	of	2	Attorney Docket Number	Sharp-1

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	
Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		LUO, PENG, CHENG, ZHONG TANG, Synthesis, Light Emission, and Optical Limiting of Hyperbranced Poly[Phenylene-alt-(2,5-Thienylene)s], Polymer Preprints, 2001, p. 527-528.	
		ESFAND, TOMALIA, Poty(Amidoamine)(Pamam) Dendrimers: From Biomimicry to Drug Delivery and Biomedical Applications, Drug Discovery Today, April 8, 2001,p.427-436, Vol. 6, No. 8	
		LIN, GUNDLACH, NELSON, JACKSON, Pentacene-Based Organic Thin-film Transistors, IEEE Transctions on Electron Devices, August 8, 1997, p1325-1331, Vol 44, No. 8.	
		MILLER, DUAN, TULLY, TOMALIA, Electrically Conducting Dendrimers, Journal American Chemistry Society,1997, p. 1005-1010, Vol.119, No. 5.	
		KAKIMOTO, Chemistry, 1995, p. 608-612, Vol. 50.	
		KAKIMOTO, Dendritic Macromolecules, Kobunshi High Polymers,1998, p.804-807, Vol. 47. Japan.	
		GRAYSON, FRECHET, Convergent Dendrons and Dendrimers from Syntheis to Application, Chemistry Rev, 2001, p. 3819-3867, Vol. 101, No. 12	
		Okada, Chemistry and Function of Dendrimers, p.25-29, IPC.	
		SHIROTA,KOBATA,NOMA, Starburst Molecules for Amorphous Molecular Materials, Chemistry Letters, 1989, p. 1145-1148.	
		MIYAURA, SUZUKI,Yuki Gosei Kagaku Kyokai Shi, Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides, Journal of Synthetic Organ	

Examiner	/Duc Truong/	Date	12/18/2008
Signature		Considered	
*EXAMINER: In considered. Inc	nitial if reference considered, whether or not citation is in conformance with MPEP 60 fude copy of this form with next communication to applicant.	9. Drawline through o	itation if not in conformance and not

Consideration, include Copy of this from with mext commination to applicability. Applicant is to place a check mark hern if English legislage Transition is established.

This collection of instruction designation marker (gotous) a property of the control of the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

OIPE OCT 1 1 2005

PTO/SB/08B (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

& THE STATE OF	ute for form 1449/PT	o			and Trademark Office; U.S. DEPARTMENT OF COMMERCE of information unless it contains a valid OMB control number. Complete if Known
		_		Application Number	10/521,846
INF	ORMATIC	N DIS	CLOSURE	Filing Date	January 18, 2005
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Motohiro Yamahara
	(Use as many			Art Unit	
	(Use as many	snoets as n	ecessary)	Examiner Name	
Sheet	2	of	2	Attorney Docket Number	Sharp-1

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		MIYAURA, SUZUKI, Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, Chemistry Rev., 1995, p. 2457-2483, Vol 95, No. 7	
		SUZUKI, Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles1995-1998, Journal of Organometallic Chemistry, 1999, pgs.147-168	

Examiner	/Duc Truong/	Date	12/18/2008
Signature		Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. \*\*\*Sputacis so required to independent interest to page a cutor time free it engine the interest integrage of interest integration interest integration interest integration interest integration in required interest integration integration interest integration integration interest integration inte Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.